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1. 2/34/1 (Item 1 from file: 351)

009482834 **Image available**

WPI Acc No: 1993-176369/199322

Epithilone derivs. obtd. by cultivating sorangium cellulosum
- are fungicides and fungistatic(s) for plant protection and
pharmaceuticals with cyto-toxic and immunosuppressive activity

Patent Assignee: CIBA GEIGY AG (CIBA); GBF GES BIOTECH FORSCHUNG GMBH
(GBFB)

Inventor: BEDORF N; GERTH K; HOFLE G; REICHENBACH H; HOEFLE G

Number of Countries: 023 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4138042	A1	19930527	DE 4138042	A	19911119	199322 B
WO 9310121	A1	19930527	WO 92EP2656	A	19921119	199322
AU 9229437	A	19930615	AU 9229437	A	19921119	199340
DE 4138042	C2	19931014	DE 4138042	A	19911119	199341

Priority Applications (No Type Date): DE 4138042 A 19911119

Cited Patents: 1.Jnl.Ref; JP 54038113

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4138042	A1	10	C07D-493/04		
WO 9310121	A1 G	23	C07D-493/04		

DE 4138042	A1	10	C07D-493/04
WO 9310121	A1 G	23	C07D-493/04

Designated States (National): AU CA FI HU JP KR NO US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE

AU 9229437 A C07D-493/04 Based on patent WO 9310121

DE 4138042 C2 10 C07D-493/04

Abstract (Basic): DE 4138042 A

Epithilone derivs. of formula (I) are new. In (I) R1 = H, 1-4C alkyl, 1-4C acyl, Li+, K+, Na+, 1/2Mg2+, or 1/2Ca2+; R2 = H or Me.

(I) can be prepd. by (a) cultivating sorangium cellulosum strain So ce 90 in a medium contg. C and N source and mineral salts; (b) adding an adsorber resin either during or after cultivation; (c) sepg. the fermenter broth; (d) eluting the (I) from the adsorber resin; and (e) removing solvent(s) from the eluate immediately or after further purification steps; and opt. (f) purifying and separating the various cpds. (I) by high pressure/low pressure chromatography and/or recrystallisation.

USE/ADVANTAGE - (I) can be used as plant protecting agents in agriculture, forestry and/or horticulture, esp. as fungicides or fungistatics. (I) can also be used as therapeutic agents which esp. have cytotoxic activity and/or immunosuppressive activity. No further details of the activity given.

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Abstract (Equivalent): DE 4138042 C

Epithilone cpds. of formula (I) are new. R1 is H, 1-4C alkyl, 1-4C acyl, Li, K, Na, 1/2 Mg or 1/2 Ca; and R2 is H or CH3. Two epithilones,

with specified NMR spectra (1H and 13C), IR spectrum etc.; and empirical formulae C₂₆H₃₉NO₆S (493) and C₂₇H₄₁NO₆S (507) are specifically claimed.

(I) are prepd. by culturing strain So ce 90 in a medium contg. a source of C and N, and minerals; adding adsorbent resin; removing the ferment broght, eluting (I) from the resin removing solvent; etc.; and purifying and separating the (I) by HP/LP chromatography and/or recrystallisation.

USE/ADVANTAGE - (I) are plant-protective agents and therapeutics with cytotoxic and immunosuppressive properties (claimed).

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Derwent Class: B02; C02; D16

International Patent Class (Main): C07D-493/04

International Patent Class (Additional): A01N-043/90; A01N-063/02;

A61K-031/425; C07G-011/00; C12P-017/18; C07D-303-00; C07D-313-00;

C07D-493/04; C12R-001-00

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□ 2.

2/34/2 (Item 2 from file: 345)

11167150

Basic Patent (No,Kind,Date): DE 4138042 A1 930527

PATENT FAMILY:

AUSTRALIA (AU)

* Patent (No,Kind,Date): AU 9229437 A1 930615

EPOTHILONES, PROCESS FOR PREPARING THE SAME AND THEIR USE AS MEDICAMENTS AND AS PLANT PROTECTING AGENTS (English)

Patent Assignee: BIOTECHNOLOG FORSCHUNG GMBH

Author (Inventor): HOFLE GERHARD; BEDORF NORBERT; GERTH KLAUS; REICHENBACH HANS

Priority (No,Kind,Date): WO 92EP2656 A 921119; DE 4138042 A 911119

* Applic (No,Kind,Date): AU 9229437 A 921119

IPC: * A01N-043/90; A61K-031/425; C07D-493/04; C12P-017/18

Derwent WPI Acc No.: * C-93-176369

Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 4138042 A1 930527

EPOTHILONE, DEREN HERSTELLUNGSVERFAHREN SOWIE SIE ENTHALTENDE MITTEL (German)

Patent Assignee: BIOTECHNOLOG FORSCHUNG GMBH (DE)

Author (Inventor): HOFLE GERHARD PROF DR (DE); BEDORF NORBERT DR (DE); GERTH KLAUS DR (DE); REICHENBACH HANS PROF DR (DE)

Priority (No,Kind,Date): DE 4138042 A 911119

Applic (No,Kind,Date): DE 4138042 A 911119

IPC: * C07D-493/04; C12P-017/18; A01N-043/90; A01N-063/02; C07G-011/00; A61K-031/425; C07D-303-00; C07D-313-00; C07D-277-24; C12R-001-01

Derwent WPI Acc No.: ; C 93-176369

Language of Document: German

Patent (No,Kind,Date): DE 4138042 C2 931014

EPOTHILONE, DEREN HERSTELLUNGSVERFAHREN SOWIE DIESE VERBINDUNGEN ENTHALTENDE MITTEL (German)

Patent Assignee: BIOTECHNOLOG FORSCHUNG GMBH (DE)

Author (Inventor): HOFLE GERHARD PROF DR (DE); BEDORF NORBERT DR (DE); GERTH KLAUS DR (DE); REICHENBACH HANS PROF DR (DE)

Priority (No,Kind,Date): DE 4138042 A 911119

Applic (No,Kind,Date): DE 4138042 A 911119

Filing Details: DE C2 D2 Grant of a patent after examination process

IPC: * C07D-493/04; C12P-017/18; A01N-043/90; A01N-063/02; C07G-011/00

; A61K-031/425
CA Abstract No: ; 120(05)052841R
Language of Document: German
WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)
Patent (No,Kind,Date): WO 9310121 A1 930527
EPOTHILONES, PROCESS FOR PREPARING THE SAME AND THEIR USE AS
MEDICAMENTS AND AS PLANT PROTECTING AGENTS (English)
Patent Assignee: BIOTECHNOLOG FORSCHUNG GMBH (DE); CIBA GEIGY AG
(CH)
Author (Inventor): HOEFLE GERHARD (DE); BEDORF NORBERT (DE); GERTH
KLAUS (DE); REICHENBACH HANS (DE)
Priority (No,Kind,Date): DE 4138042 A 911119
Applic (No,Kind,Date): WO 92EP2656 A 921119
Designated States: (National) AU; CA; FI; HU; JP; KR; NO; US
(Regional) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; SE
Filing Details: WO 100000 with international search report
IPC: * C07D-493/04; C12P-017/18; A01N-043/90; A61K-031/425;
C07D-313-00; C07D-303-00; C12R-001-00
Language of Document: German

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